

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: To be assigned
Filing Date: To Be assigned
Applicant: Jeffrey S. Hartlove et al.
Group Art Unit: To be assigned
Examiner: To be assigned
Title: LASER-PRODUCED PLASMA EUV LIGHT SOURCE
WITH ISOLATED PLASMA
Attorney Docket: NGC-00063 (48-0059)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. **LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION**

The patents, publications and other information submitted for consideration by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. **COPIES**

A. X Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cited pending U.S. application, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

B. ____ Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

U.S. Filing Date

C. ____ This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form-1449 for consideration by the Examiner and for listing on any patent resulting from this application. Since the International Search Report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g))

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

A. X Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).

B. ____ A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):

1. ____ See the attached foreign search report.
2. ____ English translations are provided for:
3. ____ Other:

C. ____ The following additional information is provided for the Examiner's consideration.

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A. ____ The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. § 122.

Serial No.

Filing Date

Art Unit

V. THIS IDS IS BEING FILED UNDER

A. X 37 C.F.R. § 1.97(b): (check only one box)

1. X within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.

2. ____ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.

3. ____ before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).

4. ____ before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

B. ____ 37 C.F.R. § 1.97(c): (check only one box)

- before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.

1. ____ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

2. ____ See the certification below. No fee is required.

C. ____ 37 C.F.R. § 1.97(d):

- after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.

1. ____ See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)

The undersigned hereby certifies that:

A. ____ each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)); or

B. ____ no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).

C. ____ Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

VII. PAYMENT OF FEES (check only one box)

A. ____ A check in the amount of \$180.00 is enclosed for the above-identified fee.

B. ____ Please charge Deposit Account No. 50-1612 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

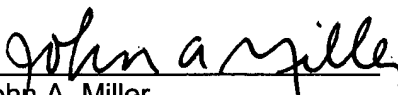
If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 50-1612.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 50-1612.

Respectfully submitted,

WARN, BURGESS & HOFFMANN, P.C.
Attorneys for Applicant(s)

Date: 6/26/03


John A. Miller
Registration No. 34,985

P.O. Box 70098
Rochester Hills, MI 48307
Telephone: (248) 364-4300
Fax: (248) 364-4285

<p align="center">FORM 1449 (Based on Form PTO-1449)</p> <p align="center">PATENT AND TRADEMARK OFFICE</p> <p align="center">INFORMATION DISCLOSURE CITATION</p> <p align="center">(Use several sheets if necessary)</p> <p align="center">Sheet 1 of 1</p>	ATTORNEY DOCKET NO.	SERIAL NO.
	NGC-00063(48-0059)	
	APPLICANT	
	Jeffrey S. Hartlove et al.	
	FILING DATE	GROUP

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		6,002,744	12-14-1999	Hertz et al.		
2.		5,577,092	11-19-1996	Kublak et al.		

FOREIGN PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes No
1.		WO 02/32197 A1 (PCT/SE01/02217)	4-18-2002	Sweden		

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)						
Ref. Desig.	Examiner's Initials					
1.		Hansson, Bjorn A.M.; Rymell, Lars; Berglund, Magnus; Hemberg, Oscar; Janin, Emmanuelle; Mosesson, Sofia and Thoresen, Jalmar; "A Liquid-Xenon-Jet Laser-Plasma Source for EUV Lithography", 3rd International Workshop on EUV Lithography, 2001, 5 pps.				
2.		Wieland, M.; Wilhein, T.; Faubel, M.; Ellert, Ch.; Schmidt, M.; and Sublemontier, O.; "EUV and Fast Ion Emission from Cryogenic Liquid Jet Target Laser-Generated Plasma" Appl. Phys. B 72, 591-597 (2001)/Digital Object Identifier (DOI) 10.1007/s003400100542.				
3.		Rymell, L.; Berglund, M; Hansson, B.A.M.; and Hertz, H.M.; "X-Ray and EUV Laser-Plasma Sources Based on Cryogenic Liquid-Jet Target"; Biomedical and X-Ray Physics, Royal Institute of Technology, SE-10044 Stockholm, Sweden; Part of the SPIE Conference on Emerging Lithograph Technologies III, Santa Clara, California, March 1999; pps. 421-423.				
4.		Gouge, Michael J. and Fisher, Paul W.; "A Cryogenic Xenon Droplet Generator for Use in a Compact Laser Plasma X-Ray Source"; Feb. 11, 1997; pps. 2158-2162.				
5.		Klebniczki, J; Hebling, J.; Hopp, B.; Hajos, G. and Bor, Z.; "Fluid Jet with Variable Thickness in the range 5-20 mu m"; Meas. Sci. Technol. 5 (May 1994) 601-603.				

Examiner:	Date Considered:
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.